Remarkable graphics power and entirely fanless

Just 3.6 cm thin, with dual-core processor and AMD Radeon™ HD 7410M graphics card – but completely fanless. Ideal for when low-noise operation is essential – enjoy full-HD movies and 3D content with a minimum of background noise. The XS35GTA V3 features two monitor outputs (one of which is an HDMI interface) to connect two screens simultaneously. Despite its compact size, there is still space for two drives in the case.

Barebone XS35GTA V3

Slim PC

Fanless

RADEON GRAPHICS AMD

Feature Highlights

Chassis	• Slim 1.5 litre chassis • Dimensions: 25.2 x 16.2 x 3.85 cm • Hole for the Kensington Lock • Optional: VESA75/100 mounting kit PV01
Operating system	• Without operating system • Compatible with Windows 7 (32/64 bit)
CPU	• Intel Atom D2700 Dual Core (2.13GHz)
Chipset	• Intel NM10 Express Chipset
Graphics	• AMD Radeon HD 7410M, 512MB DDR3 • DirectX 11, Shader Model 5.0
Memory	• 2x SO-DIMM socket (204 pins) • Supports max. 4GB DDR3-1066
Storage	• Supports one optical slimline drive • Supports one 2.5" SATA hard disk or SSD • With 4-in-1 card reader
Connectors and WLAN	• HDMI v1.3 • D-Sub VGA • 5x USB 2.0 (1x front, 4x rear) • Microphone input • Headphones output (Line-out) • Gigabit-LAN • WLAN 802.11 b/g/n
Power supply	• External 40W fanless power supply
Applications	• Basic and Home-Media

Images are only for illustration purposes.
The optical drive is not included.

8 11686 00371 7

Shuttle order no: PEB-XS35A301

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany

Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

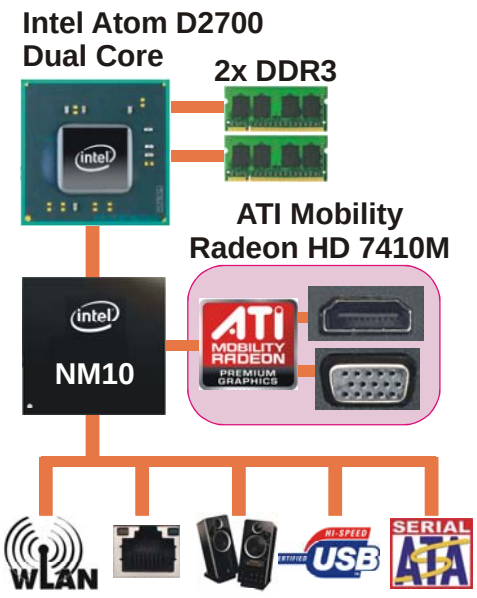
Shuttle Barebone XS35GTA V3 - Product Features

Slim and stylish

Designed as a space-saver, this sleek 1.5 litre nettop PC only measures 3.8cm in width. It maximizes space whether it is placed upright using its stylish stand or affixed to the back of a display with the optional VESA mounting kit (PV01). Due to its small size and flexible design, this practical nettop offers exceptional functionality and is well-suited for home users, small offices, reception areas, classrooms, libraries, showrooms, call centres, public institutions and more.

Fanless and quiet

The Shuttle Barebone XS35GTA V3 comes totally fanless making it perfect to be used in noise-sensitive environments such as living rooms, hospitals, libraries etc. As an additional benefit, fanless cases rarely gather dust on the inside and stay cleaner than others. So it's not only quiet and low in energy use, but also dust-free and virtually maintenance free.



The Atom processor integrates the memory controller

Shuttle XS35GTAV3 is equipped with Intels Atom processor D2700 (2.13GHz, codenamed Cedarview). It comes with both the memory controller and graphics core on-die which helps to keep heat dissipation and memory latency low. The CPU is connected to the Southbridge NM10, codenamed Tiger Point.

Dual Core. Do more.

Shuttle always uses the dual-core variant of Intel's Atom processors and thus integrates the Atom D2700. This boosts the system performance significantly with particular regards to multi-threaded applications.

AMD Radeon HD 7410M graphics

Even with the small size, the Shuttle Barebone XS35GTA V3 is equipped with AMD Radeon HD 7410M graphics for a power-packing slim PC that's unmatchable in size and performance – and is made for more than just entertainment. Key benefits are:

- Better Performance for 3D rendering and video playback
- Digital 7.1 channel audio output over HDMI
- Supports DirectX 11 and Shader Model 5.0
- Ready to take on games

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany

Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

Highly energy-saving

The XS35GTA V3 barely consumes, depending on system load, about 19~27 Watts. Running the device*) 5 days a week for eight hours a day, the annual consumption would amount to approx. 60kWh which would mean just 12 Euros on the power bill (20 Euro ct/kWh) - way less than a conventional desktop PC draws.
*) Based on a configuration with 4GB of memory, 500GB hard disk, DVD drive and Windows 7

What does "Barebone" mean?

Shuttle's barebones line such as the XS35GTA V3 is targeted at experienced users seeking to build a complete system to meet their individual requirements. The bulk of components is yet built in, simply the following hardware is to be installed upon purchase in this case:

- One 6.35 cm/2.5" Serial ATA hard disk or Solid State Disk (SSD)
- One or two DDR3 SO-DIMM memory modules (204 pins), max. 4 GB
- USB keyboard and USB mouse
- Optional: Slim-line optical drive (12.7mm height, DVD/Blu-ray, slimline format)
- Operating system: Windows 7, 32 or 64 bit

Two monitor support with HDMI (DVI) and D-Sub/VGA

The AMD Radeon HD 7410M graphics card supports multiple display support on up to two separate monitors via HDMI (DVI through optional adapter) and D-Sub/VGA. This improves the capabilities and productivity of the user by allowing them to spread multiple windows over two monitors and view them simultaneously.

XS35GTA V3 supports Blu-ray

The XS35GTA V3 with AMD Radeon HD 7410M graphics offers a plus in performance - experience videos and Blu-ray *) movies at full-HD 1080p quality. The Shuttle Barebone XS35GTA V3 even takes on games. Benefit from an increase in performance when playing and converting videos, editing images and working with different applications at once. With AMD Radeon HD 7410M you get the maximum out of Windows 7.
*) Slim-line Blu-ray drive and appropriate software required

4-in-1 card reader

The built-in 4-in-1 card reader at the front side makes it easy to transfer files from your camera so you can share videos and photos on your XS35GTA V3 with ease.

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany
Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. As known from notebooks, this Mini-PC can also be safely locked by tieing it to a solid object.
(The lock-and-cable apparatus is not included.)

Optional second hard disk (Accessory PHD2)

The optional accessory PHD2 supports a second 2.5" hard disk. Please note, that the bay for the optical drive will be occupied then.

Tiny power adapter

The external 40W power adapter is virtually noiseless and can easily be hidden behind the desk thanks to its tiny dimensions.
Dimensions: 89.5 x 37 x 26.5 mm (LWH) = 88ml

Easy installation

Remove just one screw to unmount the two chassis covers.

Optional VESA mount (Accessory PV01)

Its optional VESA75/100 wallmount allows it to be installed on to walls or just affixed on the rear side of a monitor which is particularly interesting for the industry segment, company buildings and public institutions.

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany

Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

24/7 nonstop operation

Shuttle XS35GTA V3 is officially approved for 24/7 permanent operation. Thanks to its low power consumption and completely passively cooling, this PC runs highly reliable making it perfectly suitable for digital signage and POI/POS applications.

Conditions for permanent use:

- Ambient temperature while under load: 5-35°C
- Air humidity while under load: 10-90% (not condensing)
- Free circulation of air amongst the PC must be guaranteed
- Ventilation holes must be clear
- If a hard disk is installed, this must also be approved for permanent operation by its manufacturer (max. one hard disk)

Note on operating position

Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany

Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

Shuttle Barebone XS35GTA V3 Specifications

Fanless and silent	Passive cooling, no fan noise at all Perfect to be used in noise-sensitive environments Fanless, dust-free and thus virtually maintenance-free
Efficiency	Low power consumption: Power consumption: ca. 19W (idle mode) and ca. 27W (full load)
Chassis	Dimensions without Stand: 25.2 x 16.2 x 3.85 cm (DxHxW) Weight: 2.1 kg net, 2.8 kg gross Hole for the Kensington Lock at the back panel Optional accessory: 75mm and 100mm VESA mounting kit (PV01)
Operation System	This system comes without operating system. It is compatible with Windows 7 (32 or 64 bit)
Processor	Intel Dual Core Atom processor D2700 (Codename: Cedarview) Intel Hyper-Threading technology: 2-threads per core 32 nm manufacturing process, Micro-FCBGA11 package Intel 64 architecture, Core clock: 2.13 GHz L2 Cache: 1024kB , TDP: max. 10W Supports SSE2, SSE3, SSSE3, Execute Disable Bit Integrated North Bridge with controller for memory and graphics
Cooling	Passive, completely fanless cooling through convective heat transfer Warning: Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.
Chipset	Intel® NM10 Express Chipset (south bridge) Platform Controller Hub (PCH) Code name: Tiger Point
BIOS	AMI BIOS in a 8Mbit Flash ROM supports PnP, ACPI 2.0 Supports external USB flash memory card boot up Supports Power fail resume / AC power on state / always on / always off Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states Supports Unified Extensible Firmware Interface (UEFI)
Memory	2x SO-DIMM slots with 204 pins Supports two modules DDR3-1066 (PC3-8500) DDR3-1333 is supported at DDR3-1066 clock rate Supported maximum capacity: 4 GB
Optical drive (opt.)	Support an optical DVD or Blu-ray slim-line drive Serial ATA interface, 12.7mm height, Slimline SATA connector

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany
Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

Hard disk drive or SSD	Supports one Serial ATA hard disk (5400 / 7200 rpm) or one SATA SSD drive in 6.35cm/2.5" format The SATA 2.0 interface supports up to 300MB/s data transfer speed Supports a drive with 9.5mm height (12.5mm is not supported) Supports Unified Extensible Firmware Interface (UEFI)
ATI Graphics Card	AMD Radeon™ HD 7410M graphics processor (Codename "Seymore-LP") Dedicated 3D graphics card VRAM: 512MB DDR3, 800MHz, 64 bit (no shared memory) 160 Stream Processing Units, 40nm technology Supports DirectX 11, Shader Model 5.0, OpenGL 4.1 Unified Video Decoder (UVD 3) dedicated video playback accelerator Supports full HD decode (1080i/p) Support for up to 2 simultaneous displays: 1) Digital HDMI™ 1.4a, max. resolution: 1920x1200 2) Analog D-Sub VGA, max. resolution: 2048x1536 Supports Extended Desktop Mode and Clone Mode Supports Blu-ray play back in combination with an optional slim-line Blu-ray drive and appropriate software Integrated HD audio controller for 7.1 Surround Sound via HDMI. Supports AC-3, AAC, Dolby TrueHD and DTS Master Audio formats.
Integrated Audio	Integrated Audio IDT92HD81 Audio Codec with Azalia support Two analog audio connectors (3.5mm): 1) Line out (head phone) 2) microphone input Supports digital 7.1 HD audio via the HDMI port.
Card Reader	4-in-1 card reader at the front side Supports SDHC, SD, MS und MS-pro memory cards PCIe Interface
Wired Network	RJ45 connector supports Gigabit LAN at 10/100/1000 Mbit/sec. Network controller JMC 251 Supports Wake-on-LAN (WOL) from S3, S3, S5 ACPI states
Wireless Network	Supports IEEE 802.11b/g/n, max. 150Mbps up-/downstream Security: WPA/WPA2(-PSK), WEP 64/128bit, IEEE 802.11x/i Half size Mini-PCIe-Card
Connectors	HDMI v1.3 digital video and audio output D-Sub/ VGA analog video (15 pin) 5x USB 2.0 (1x front, 4x rear) Gigabit network (LAN, RJ45) Audio Line-out (head phone) Microphone input DC input for the external power adapter

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany
Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

LEDs and buttons	Power button Power LED (white) Hard disk LED (blue)
Power supply	External 40W AC/DC power adapter (fanless), 19V / 2.1A AC Input: 100~240V AC, 50~60Hz Automatic voltage adjust Dimensions: 89.5 x 37 x 26.5 mm (LWH) DC Connector: 5.5/2.5mm (outer/inner diameter)
Optional accessories	- VESA mount made of metal (PV01) - Adapter for second 2.5" drive instead of optical drive (PHD2)
24/7 nonstop operation	This device is approved for 24/7 permanent operation. Requirements: - Free circulation of air amongst the PC must be guaranteed. - Ventilation holes must be clear. - If a hard disk is installed, this must also be approved for permanent operation by its manufacturer (max. one hard disk)
Environ-mental spec.	Operating temperature range: 0~35°C Relative humidity range: 10~90% (non-condensing)
Certification and Compliance	EMI: CE, FCC, BSMI, C-Tick, CCC Safety: CB, BSMI, ETL Other compliances: RoHS, Eup Lot6 This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU-guidelines: - EMV-guideline 89/336/EWG electromagnetic tolerance - LVD-guideline 73/23/EWG use of electric devices within certain voltage-limits

Comparison: Shuttle Slim-PC Barebone PC XS35/XS36 Series

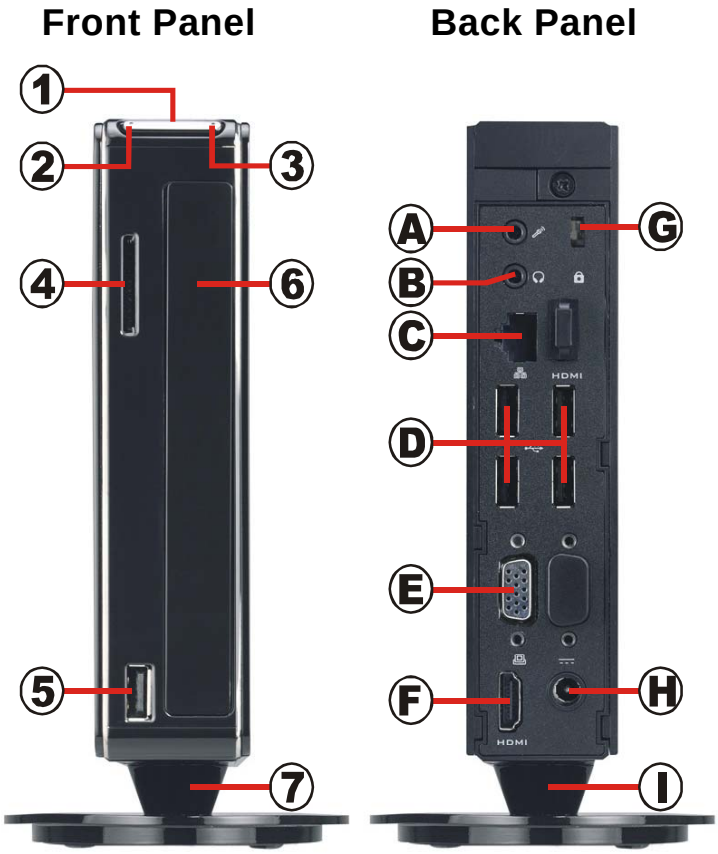
Model	Graphics	HDMI	DVI	D-Sub	RS232	WOL	Processor	Memory (SO-DIMM)	Other
XS35	Intel GMA3150	-	-	Yes	-	-	Intel Atom D510 (2x 1.66GHz)	Max. 2GB DDR2-800 1x SO-DIMM slot	Fast Ethernet
XS35GT	NVIDIA ION2	Yes	-	Yes	-	-			
XS35V2	Intel GMA3150	-	-	Yes	-	-	Intel Atom D525 (2x 1.80GHz)	Max. 4GB DDR3-800 1x SO-DIMM slot	Gigabit LAN
XS35GT V2	NVIDIA ION2	Yes	-	Yes	-	-			
XS35GTA V2	ATI Mobility Rad. HD 5430	Yes	-	Yes	-	-			
XS35V3	Intel GMA3650 [2]	Yes	-	Yes	-	Yes [3]	Intel Atom D2700 (2x 2.13GHz)	Max. 4GB DDR3-1066 2x SO-DIMM slots	Gigabit LAN
XS35GTA V3 [1]	ATI Radeon HD 7410M	Yes	-	Yes	-	Yes [3]			
XS36V	Intel GMA3650 [2]	Yes	Yes	Yes	2x	Yes [3]			

[1] **XS35GTAV3** is also called **XS35GS V3** outside EU.
[2] Intel offers sophisticated graphics driver for the integrated **Intel GMA3650** graphics only for Windows 7 32 bit. Linux can be used in standard graphics mode without video acceleration. (date April 2012)
[3] Supports Wake-on-LAN (WOL), Power fail resume and Resume by RTC Alarm

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany
Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

Shuttle Barebone XS35GTA V3 – Connectors



1	Power button
2	Power LED
3	Hard disk LED
4	4-in-1 card reader
5	USB connector
6	Bay for the optical slimline drive *)
7	Vertical stand

A	Microphone input
B	Head phone output (Line out)
C	Gigabit LAN connector (RJ45)
D	4x USB connectors
E	D-Sub/VGA connector
F	HDMI connector
G	Hole for the Kensington-Lock
H	Connector for the power adapter
I	Vertical stand

*) Note: The optical drive is not included.

Warning:
Please make sure the system is always placed upright using either its stand or the optional VESA mount. Ventilation holes must not be blocked to ensure sufficient cooling.

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany
Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu

Images are only for illustration purposes. The optical drive is not included.

©2012 by Shuttle Computer Handels GmbH (Germany). All information subject to change without notice. Pictures for illustration purposes only.

Shuttle Computer Handels GmbH
Fritz-Strassmann-Str. 5
25337 Elmshorn | Germany

Tel. +49 (0) 4121-47 68 60
Fax +49 (0) 4121-47 69 00
sales@shuttle.eu